

## ABSTRACT

The present invention relates to a recombinant receptor, comprising a ligand-binding domain and a signaling domain that comprises a heterologous bait polypeptide, which receptor is inactivated by binding of a prey polypeptide to the heterologous bait peptide, either in presence or absence of a ligand binding to the ligand-binding domain. The receptor is activated by addition of a compound that disrupts the bait-prey interaction. The present invention also relates to a method of screening compounds that disrupt compound-compound-binding using the recombinant receptor.

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